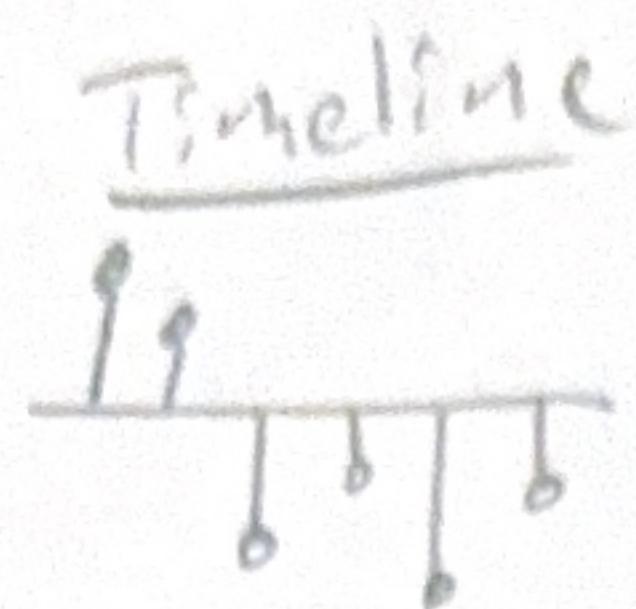
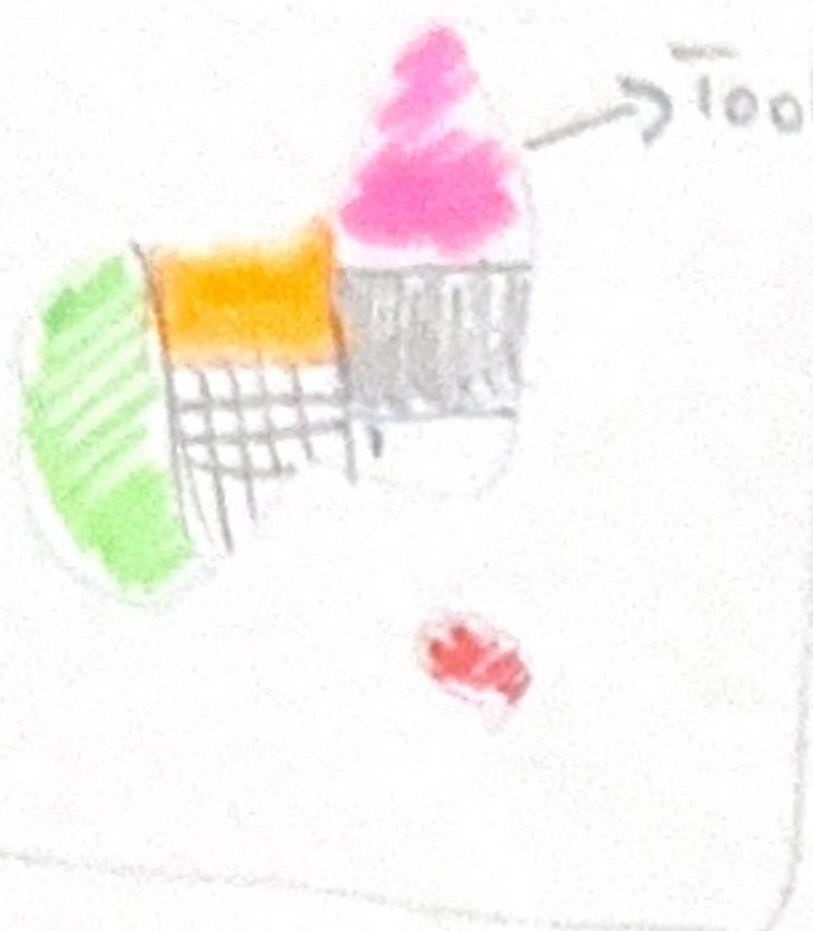
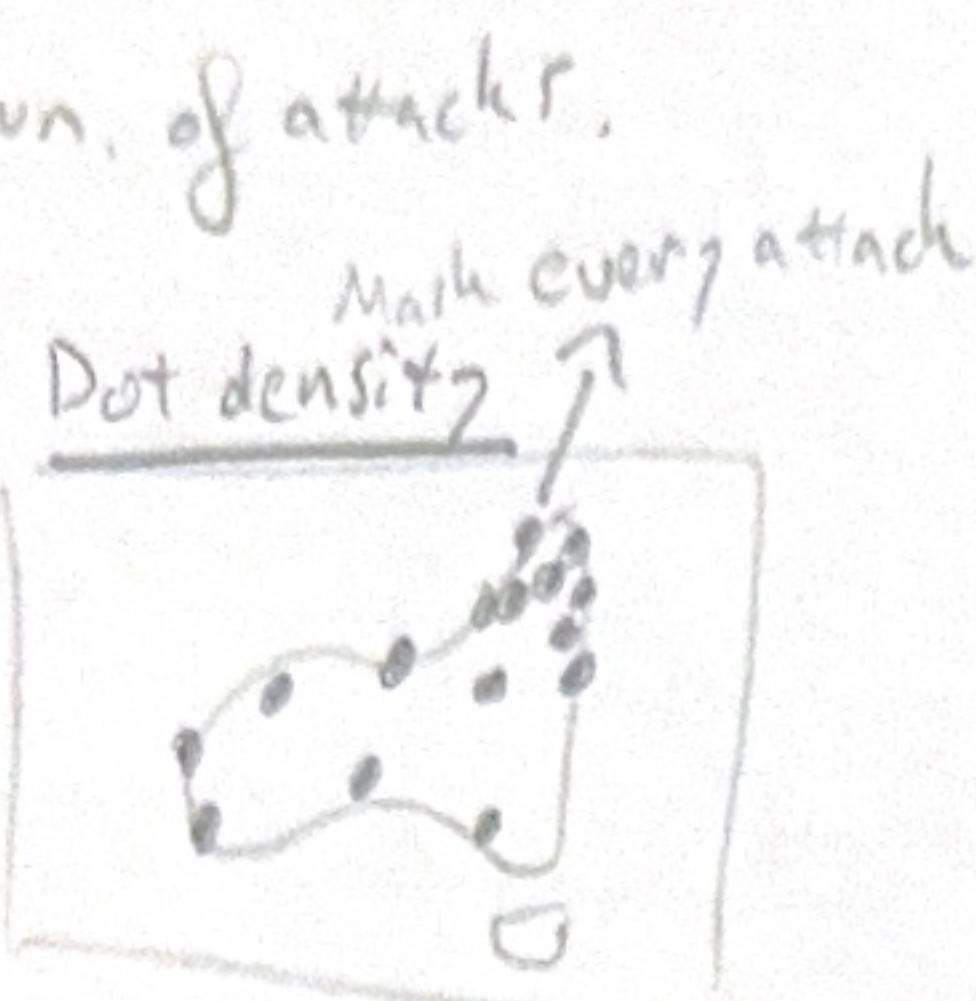


# IDEAS

## Categorise

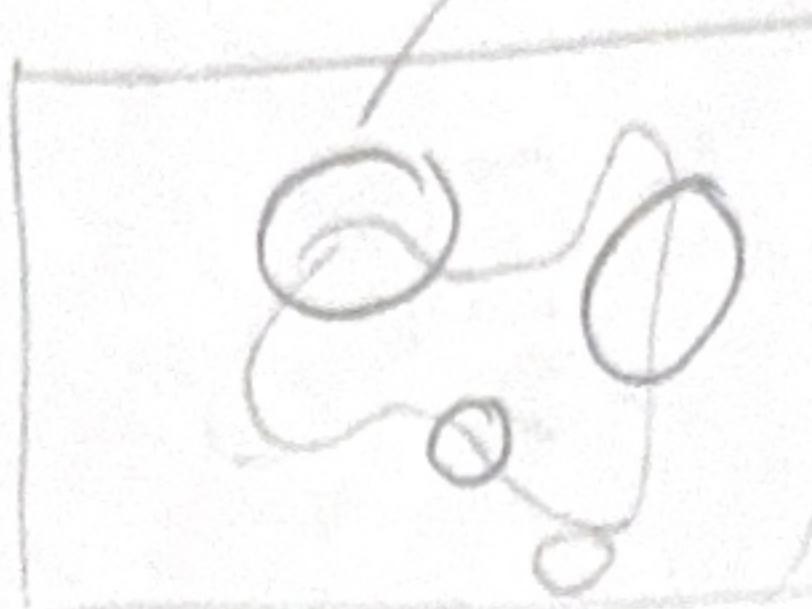


## Pair columns



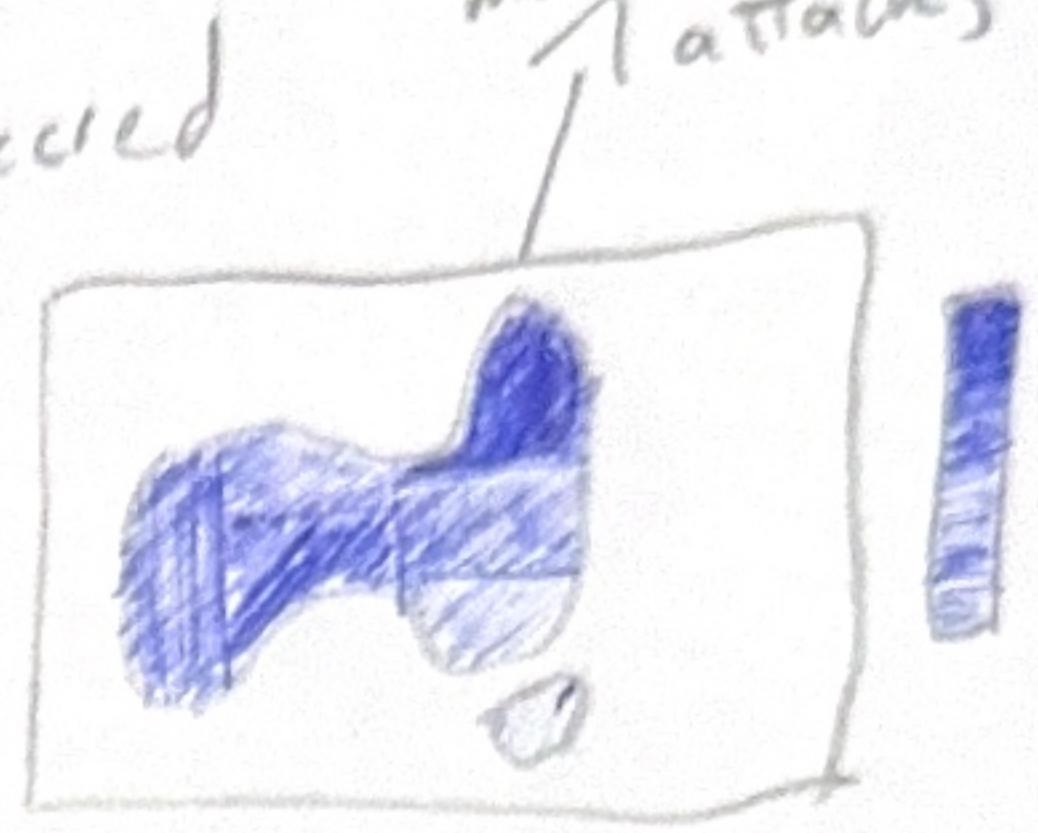
## Proportional

Show the area where attacks occurred



## Choropleth

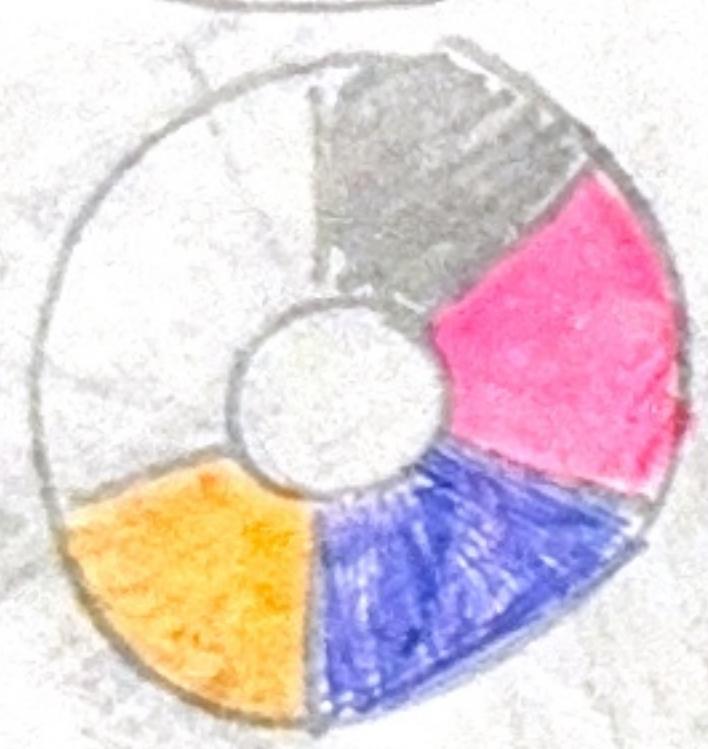
Darker area means more attacks



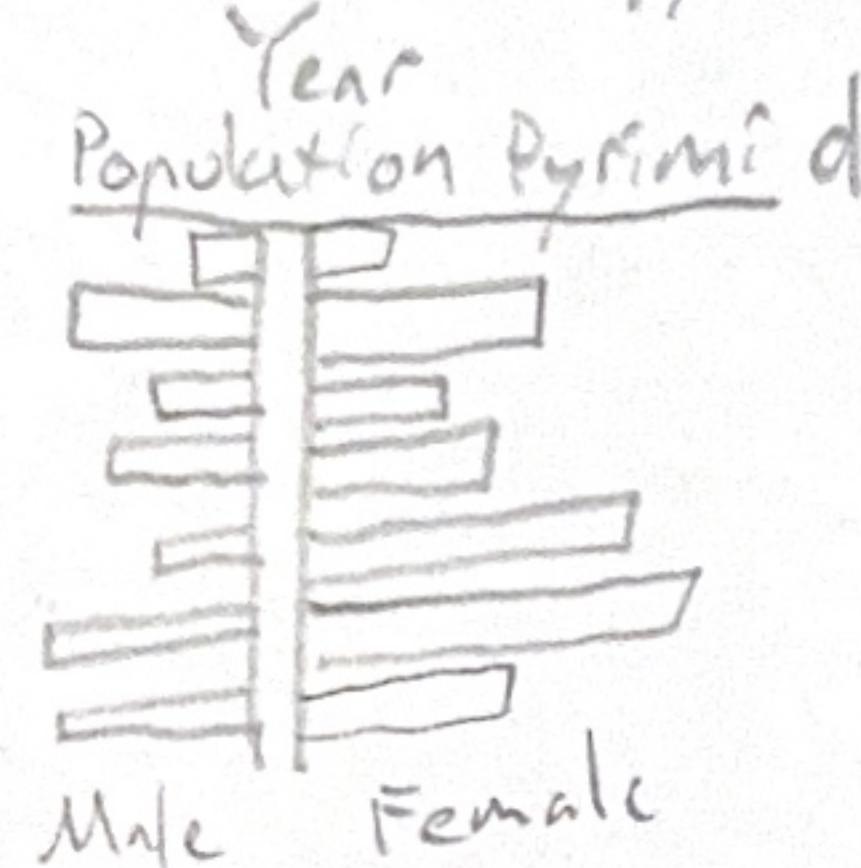
## Treemap

	Tiger	Bull
Nurs		
Other		white

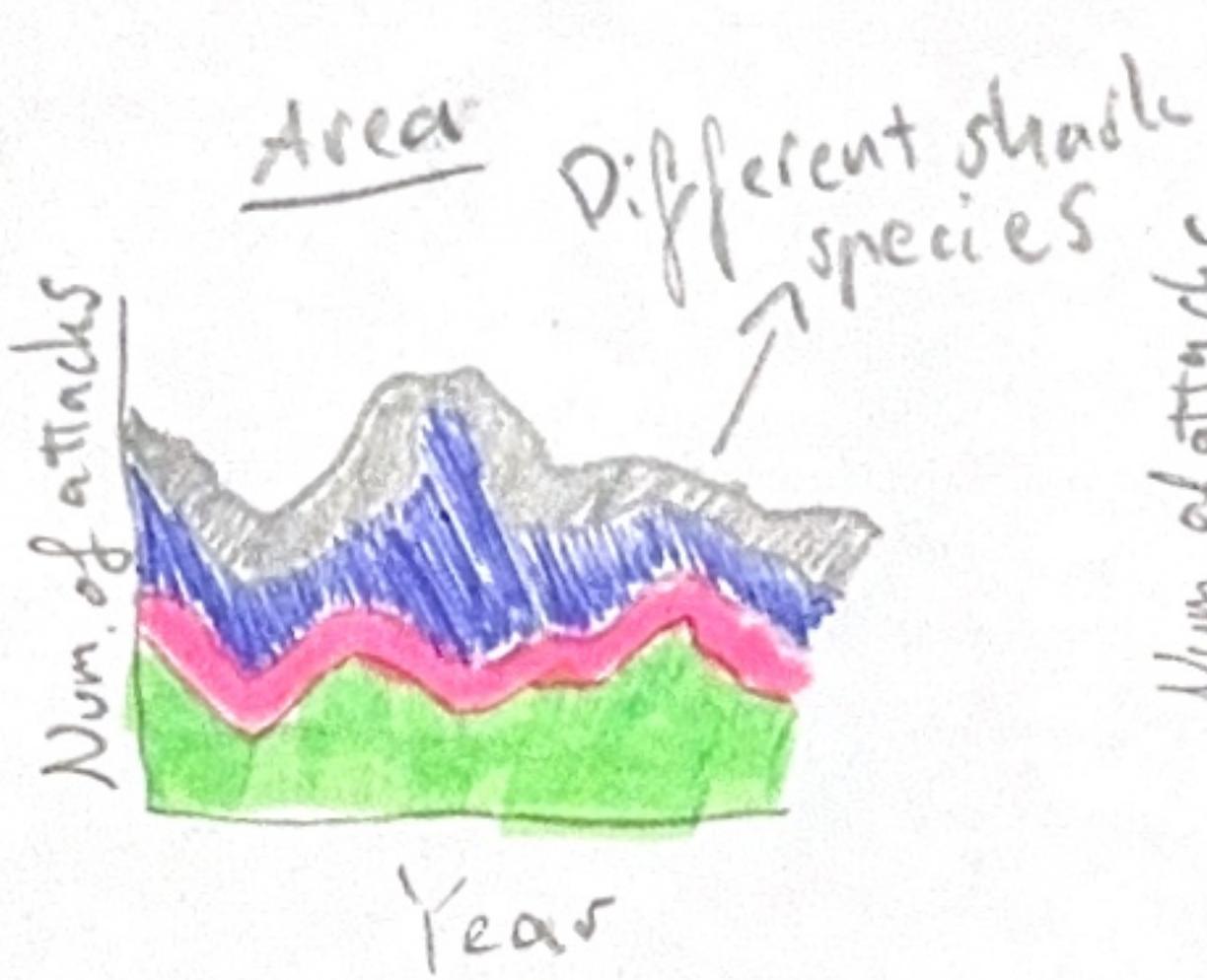
## Donut



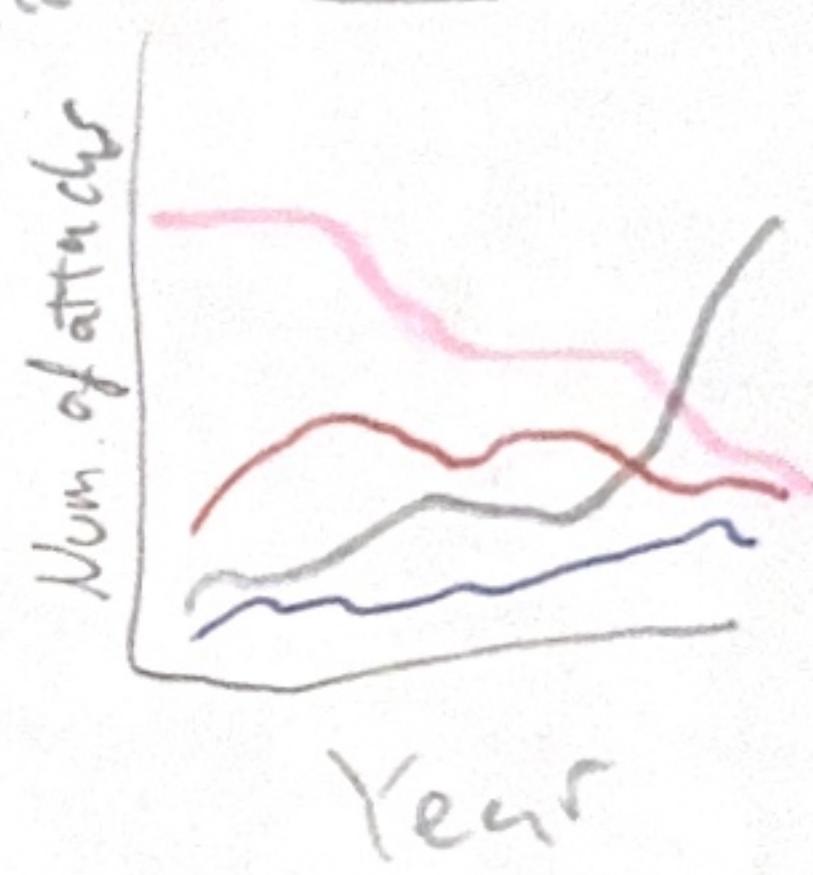
## Stacked column



## Bar



## Multi-series line



## Combine and refine

### Treemap and donut.



- Represent same information.
- Treemap is easier to read.

### Stacked area over stacked column

- Both represent similar information however stacked area provides better readability when you want to see the changes over time

### Choropleth over categorical

- Choropleth is better in this case as it shows density and magnitude.
- Choropleth shows variation across regions.

### Questions

- Are specific attacks highlighted?
- Does it provide an overview of where and who is involved?
- Are there any trends with the attacks?

## Categorise

Where are the shark attacks occurring?

Who is involved?

Victims

Filter

Attackers

## Proportional map

- Does not show exact location of shark attacks.
- Give shark attacks happen near the coast, this may not be accurate.

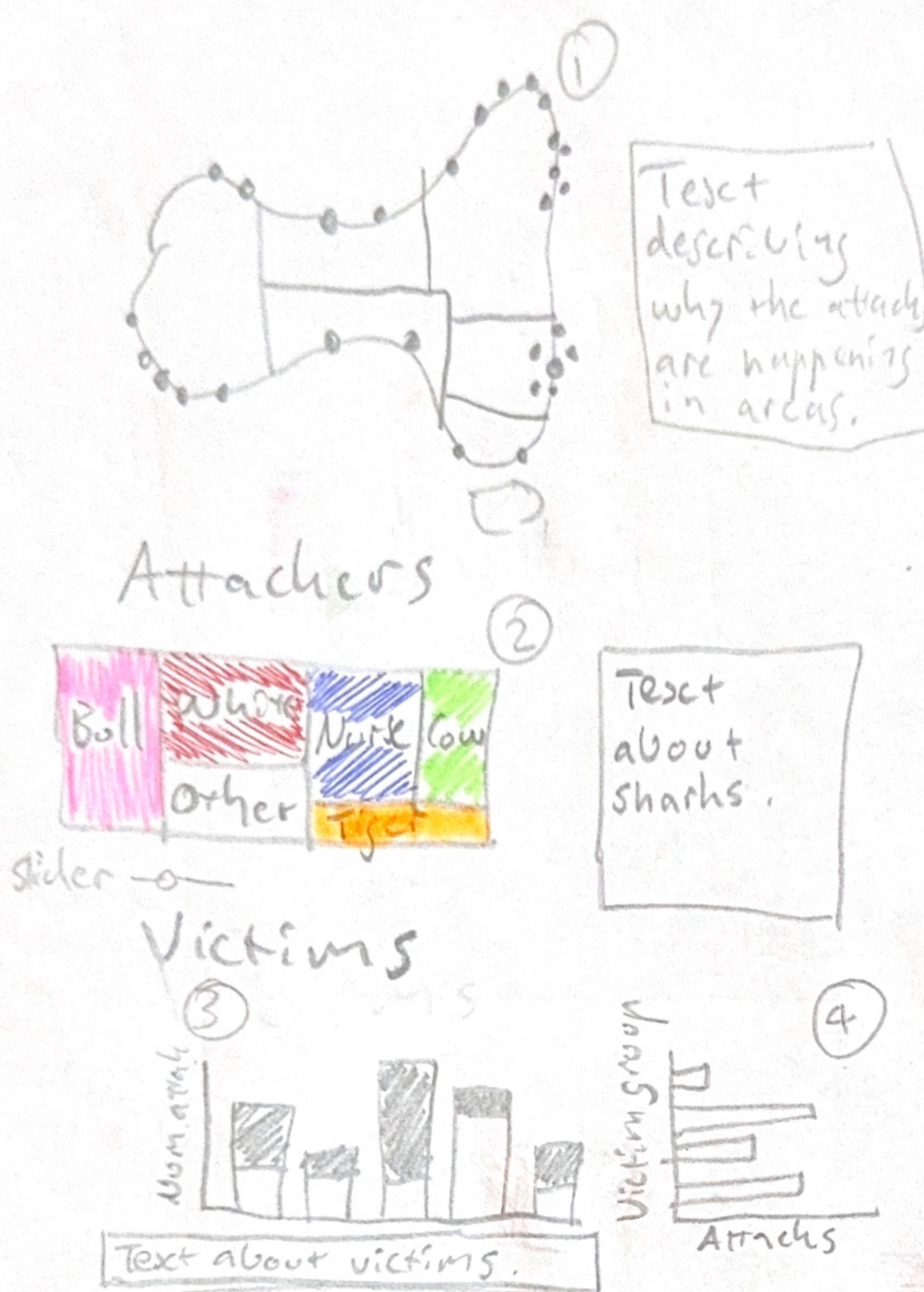
## Timeline graph

- Only showcases one attribute which may not provide sufficient information.

②

# Layout

## Shark attacks in Australia



### Focus

→ As this is in the middle of the visualisation this brings the focus to, who the attackers are.

→ Having the treemap easily show the distribution of the attackers.



### Pros

- Good story, which follows the top-down.
- Clearly shows information about where and who.
- Too much white space.

### Cons

T: Shark attacks in Australia,

A: Jiseok Shin

D: 20/09/2024

S: 2

T: Show the shark attackers

### Operations

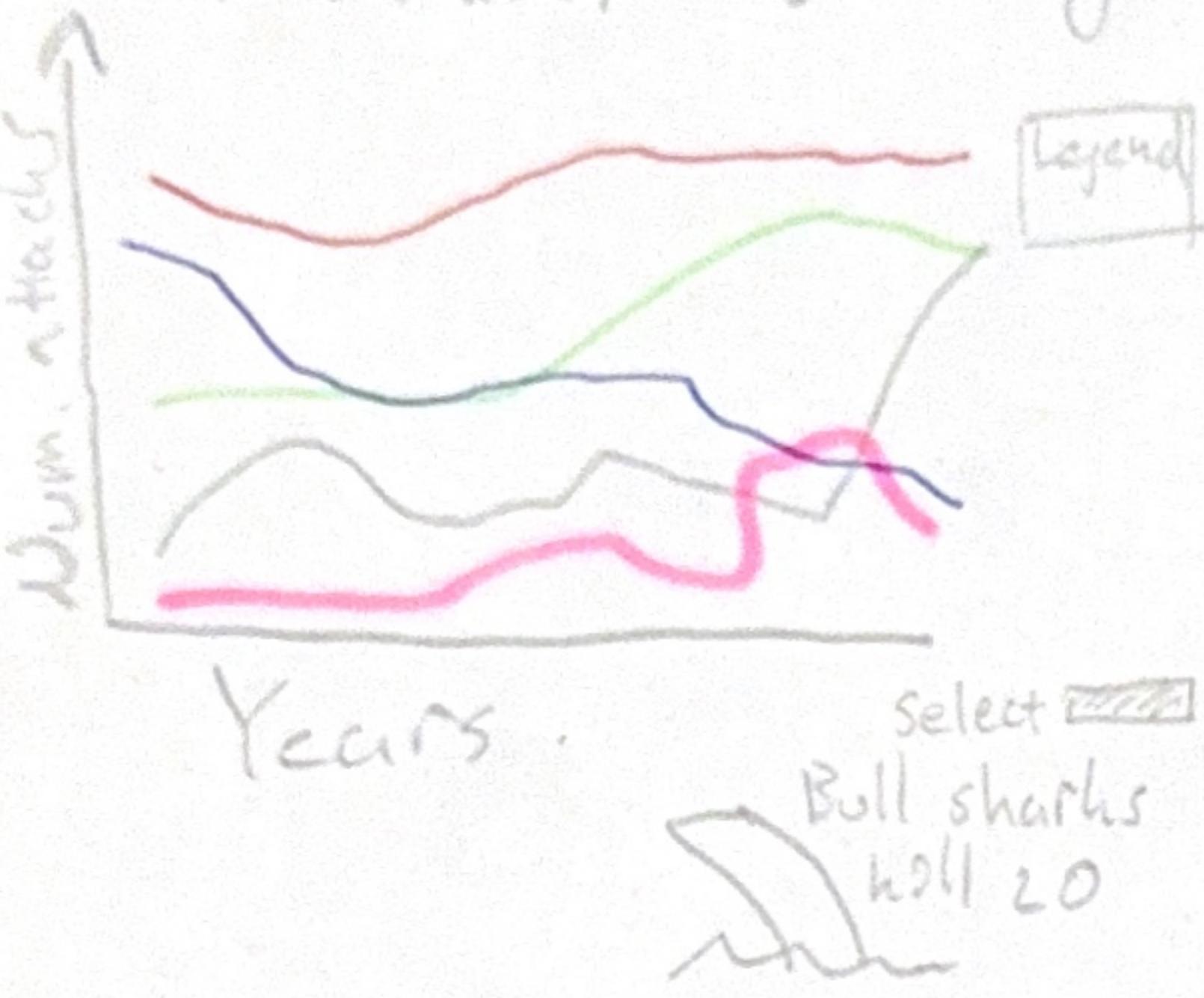
→ For idiom 1, a tooltip will display information about each attack when you hover over. This will be name, age, exact location.

→ Idiom 2 will have an aspect ratio slider which the user can use to change the layout of the treemap.

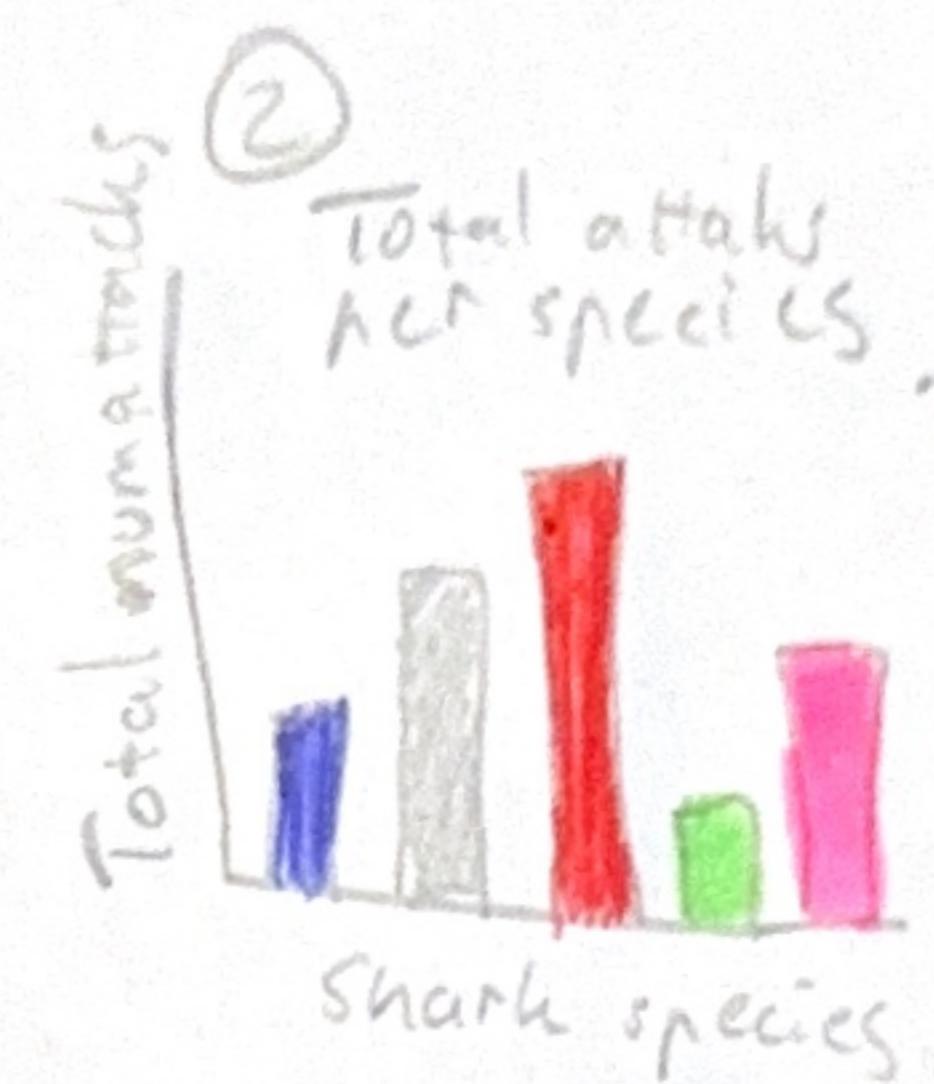
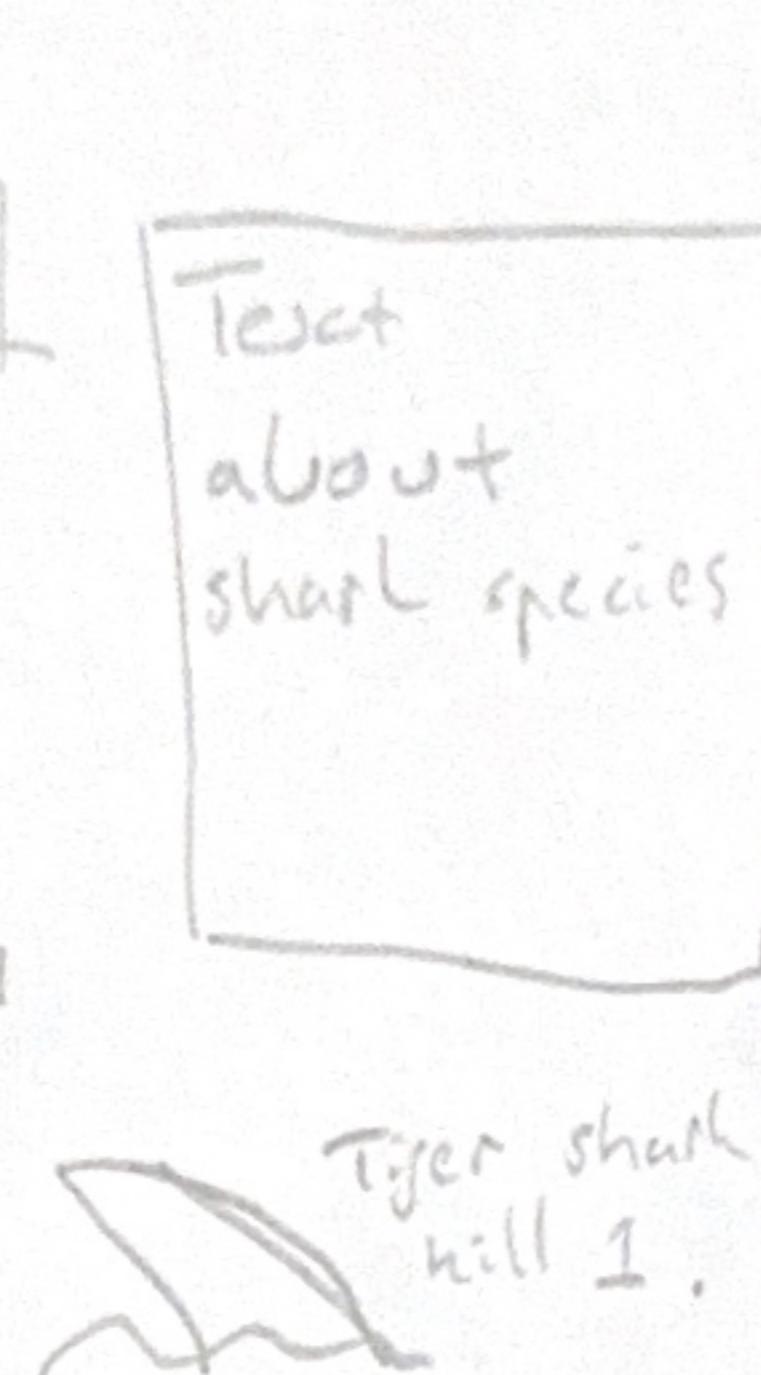
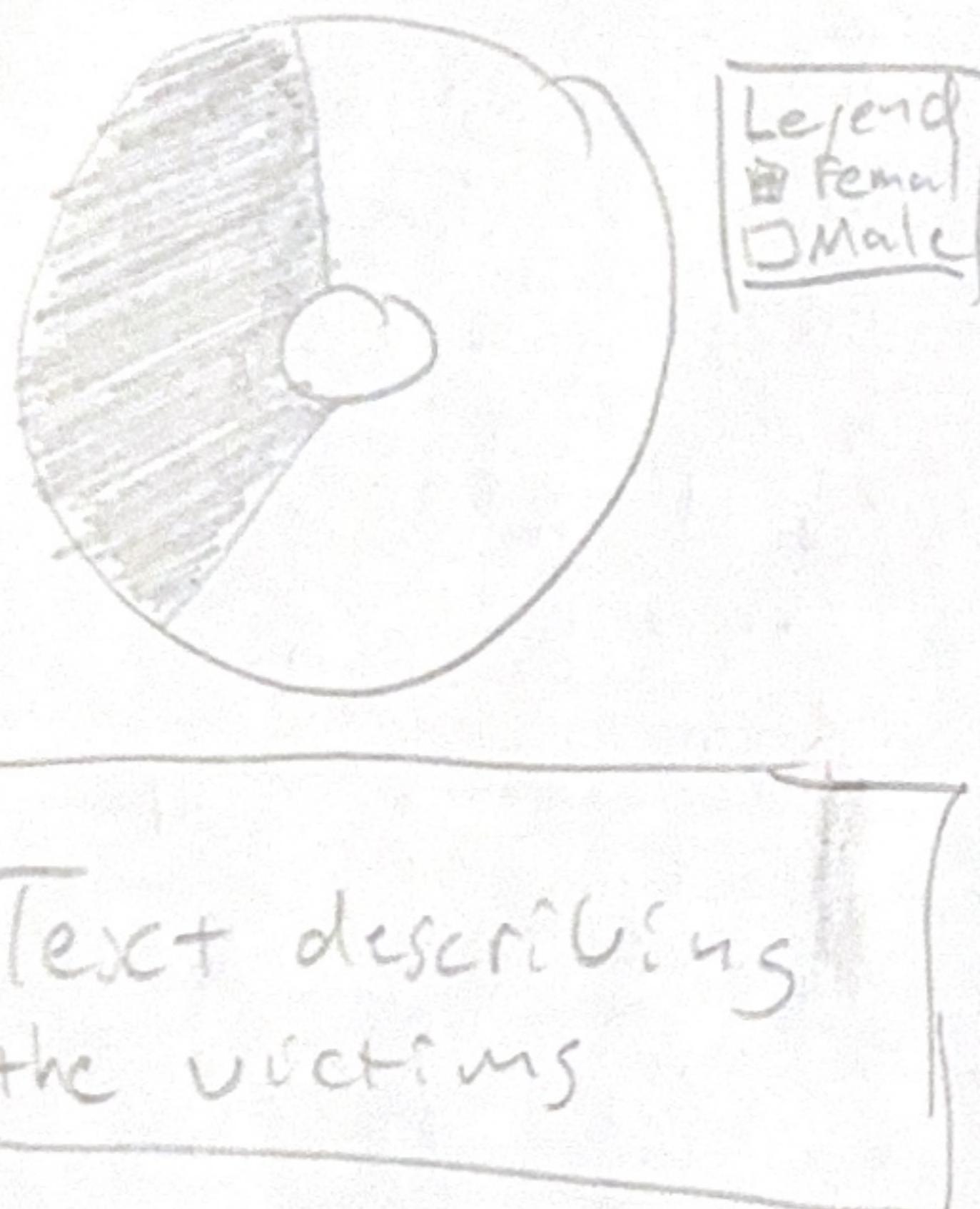
## Layout

# Should you be scared of sharks?

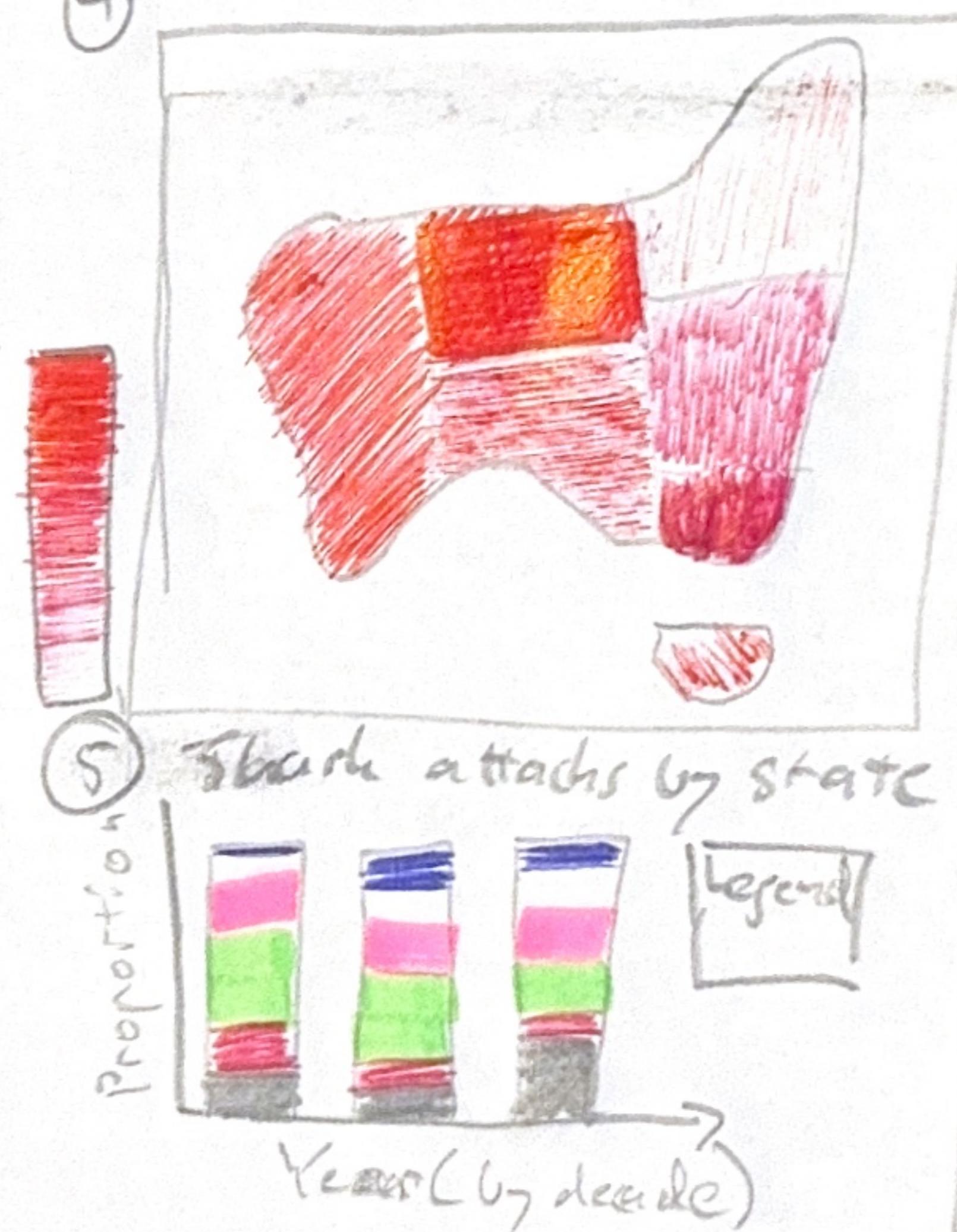
① shark attack species



③ Sex of victims



④ Where did attacks occur



T: Should you be scared of sharks?

A: Jiseok Shin

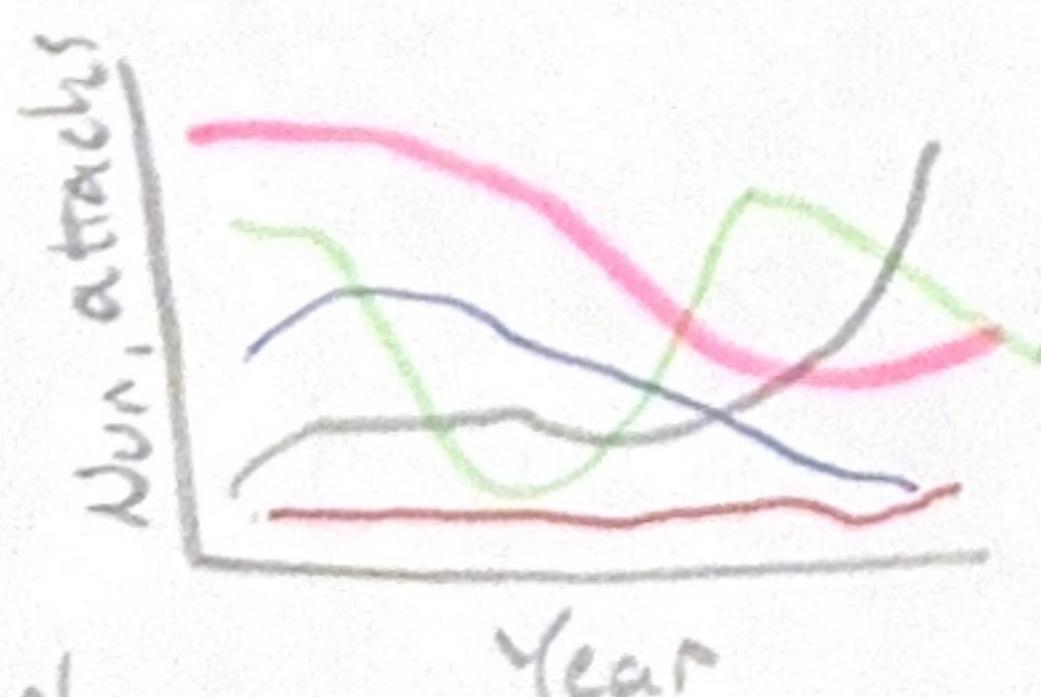
D: 20/09/24  
S: 3

T: Who is vulnerable to shark attacks

## Operations

For idiom 1, you can hover over lines to see exact values. You can also select which line (shark species) you want to view.

## Focus



→ The different coloured lines show the different shark species.

→ Focus is on 'who' the attackers were

→ Positioned to top left to be the first thing that viewer can see,

## Cons

→ Too clustered which makes it hard to identify the focus.

## Pros

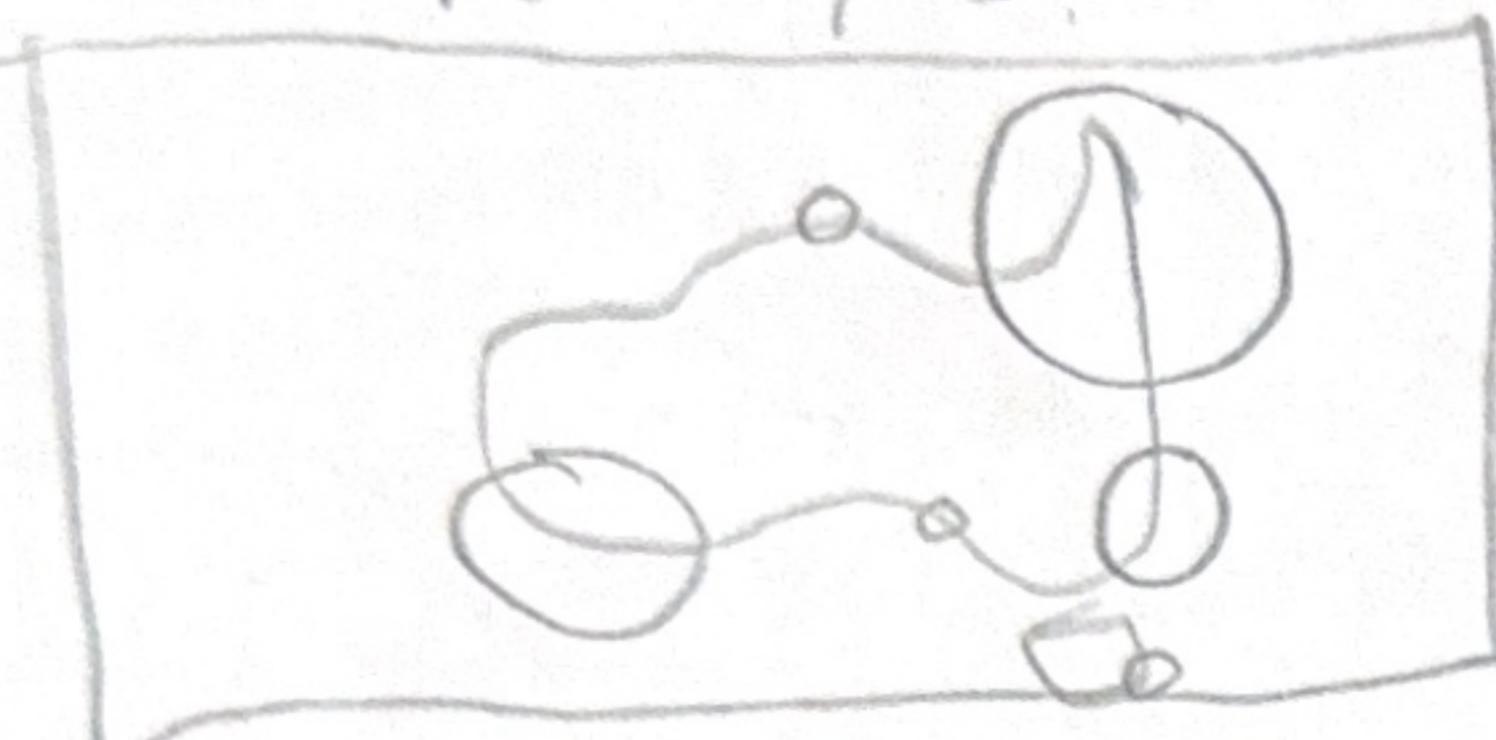
→ Shows lots of different information.

④

## Layout

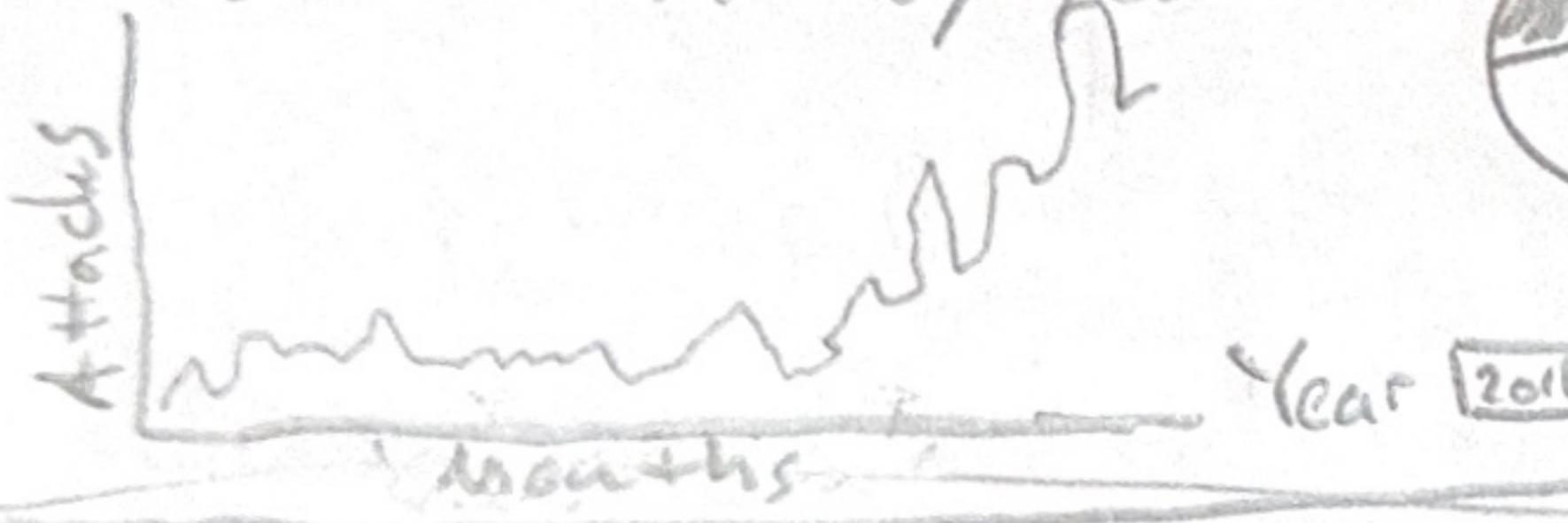
How safe are you  
in the water?

Q: Are shark attacks happening  
near you?

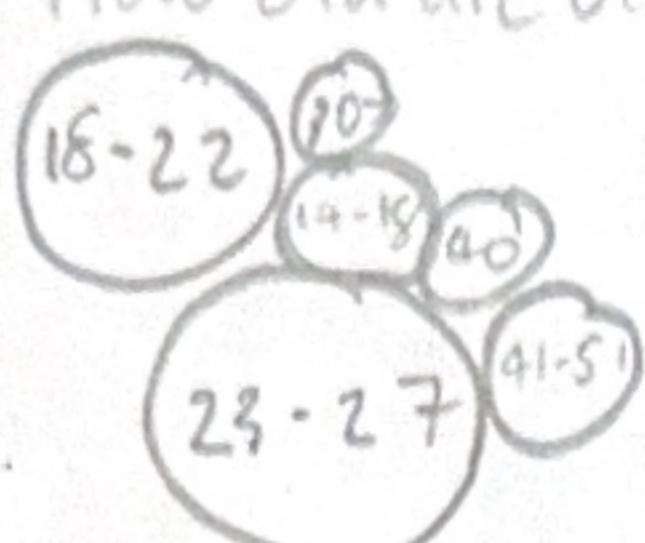


**Text about locations**

② Shark attack by year

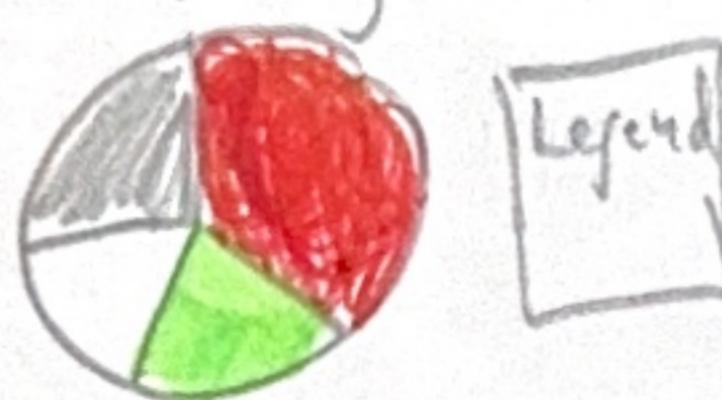


③ Is this you?  
How old are victims



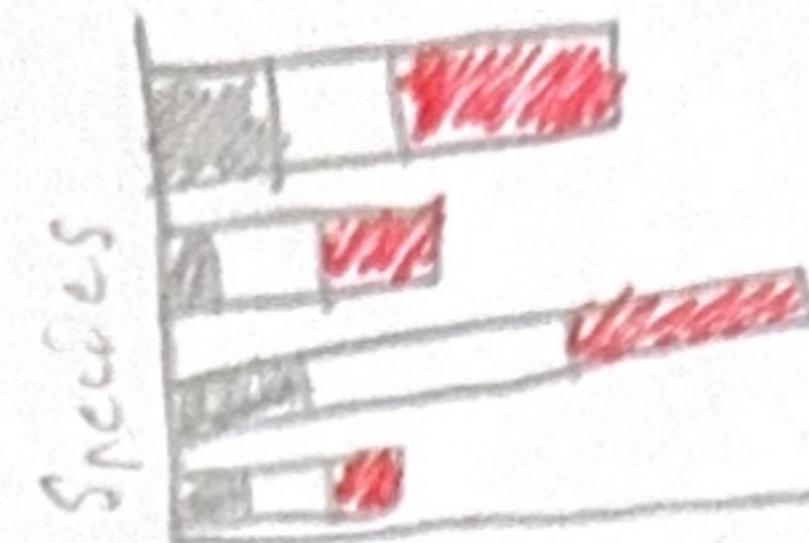
**Text about base group**

④ What were victims  
doing



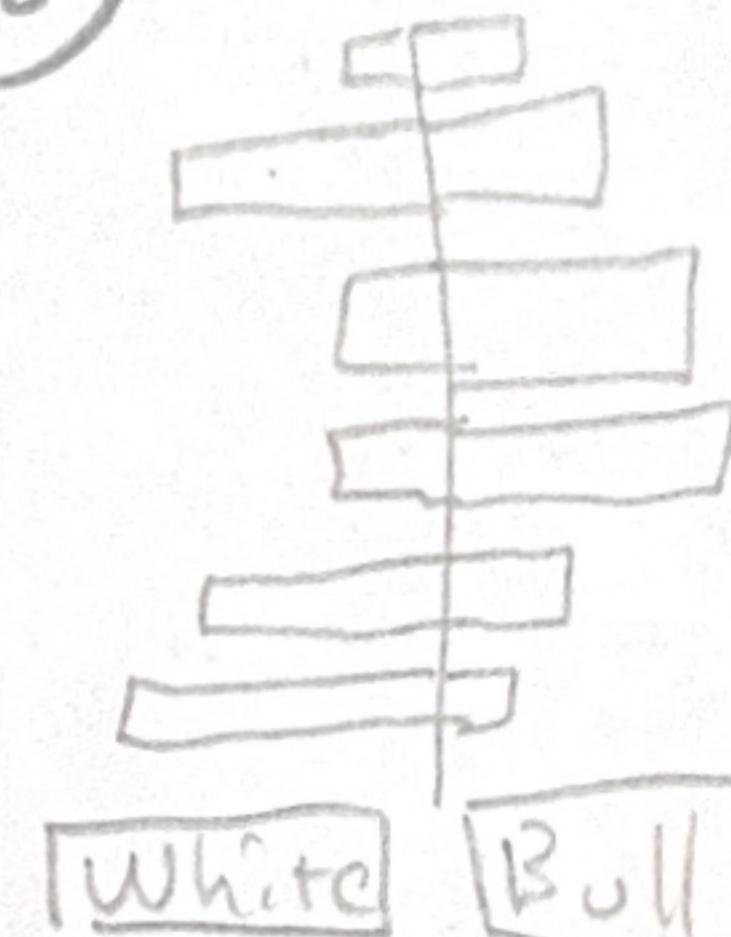
**Legend**

⑤ Shark attacks  
Attack outcomes



**Num. attacks**

⑥ Attacker compare



**White**    **Bull**

T: How  
safe are you  
in the water?

A: Jiseok  
Shin.

D: 22/09/24

S: 4

T: Who is most  
likely to be attacked

## Operations

In idiom 6, the viewer can select two shark species to compare.  
• This is done by selecting species on drop down box.

In idiom 2, the viewer can select the exact year they want to analyse using a drop down box.  
• This will let them view the attacks that occurred each month of that year.

The first row of idioms are the focus as it is the first thing the viewer can see.

→ Size of graphs can be bigger to emphasize important information.

## Pros

→ Clearly divided section based on columns to differentiate different topics

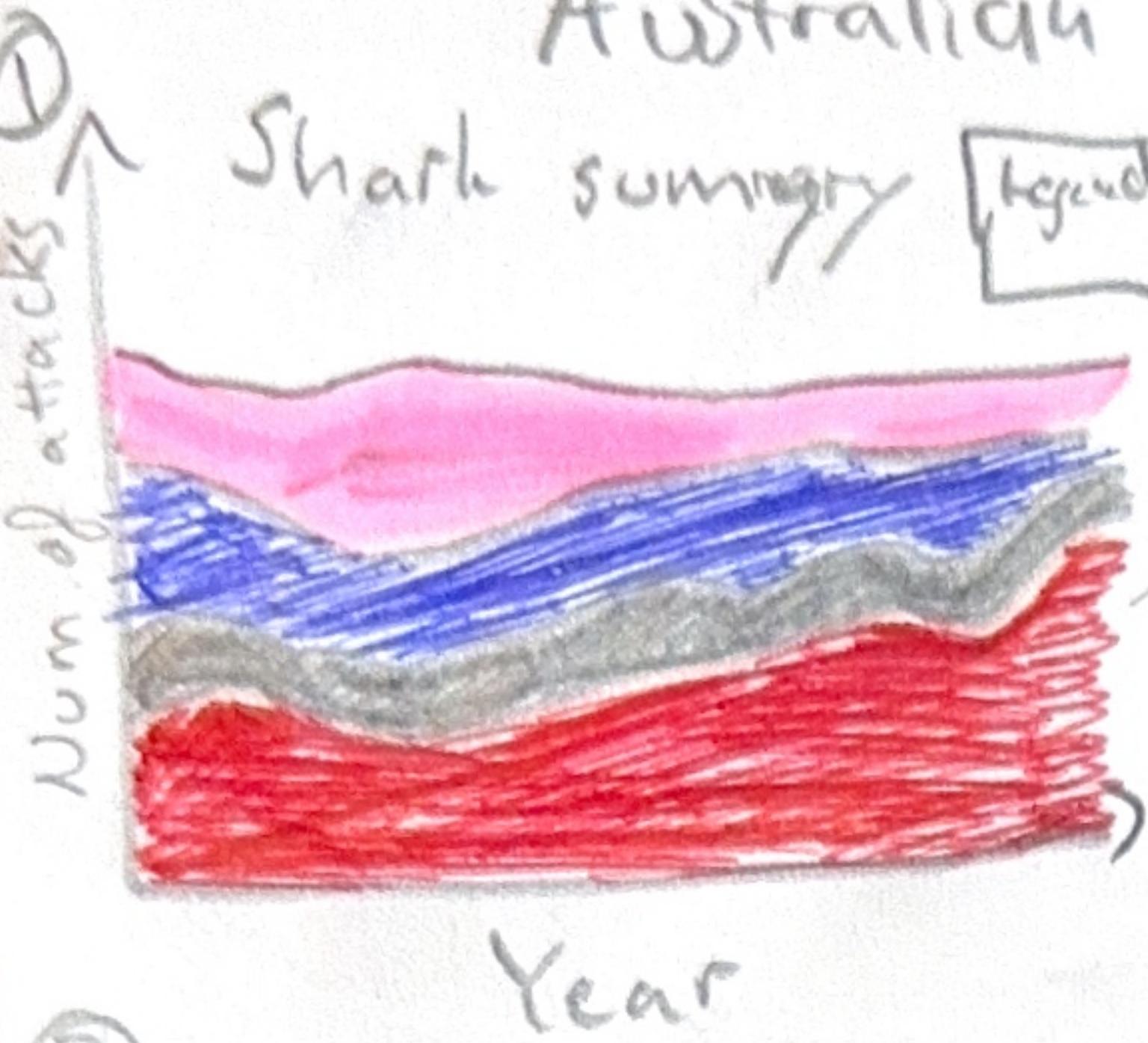
→ Lots of information presented well with good storytelling.

## Cons

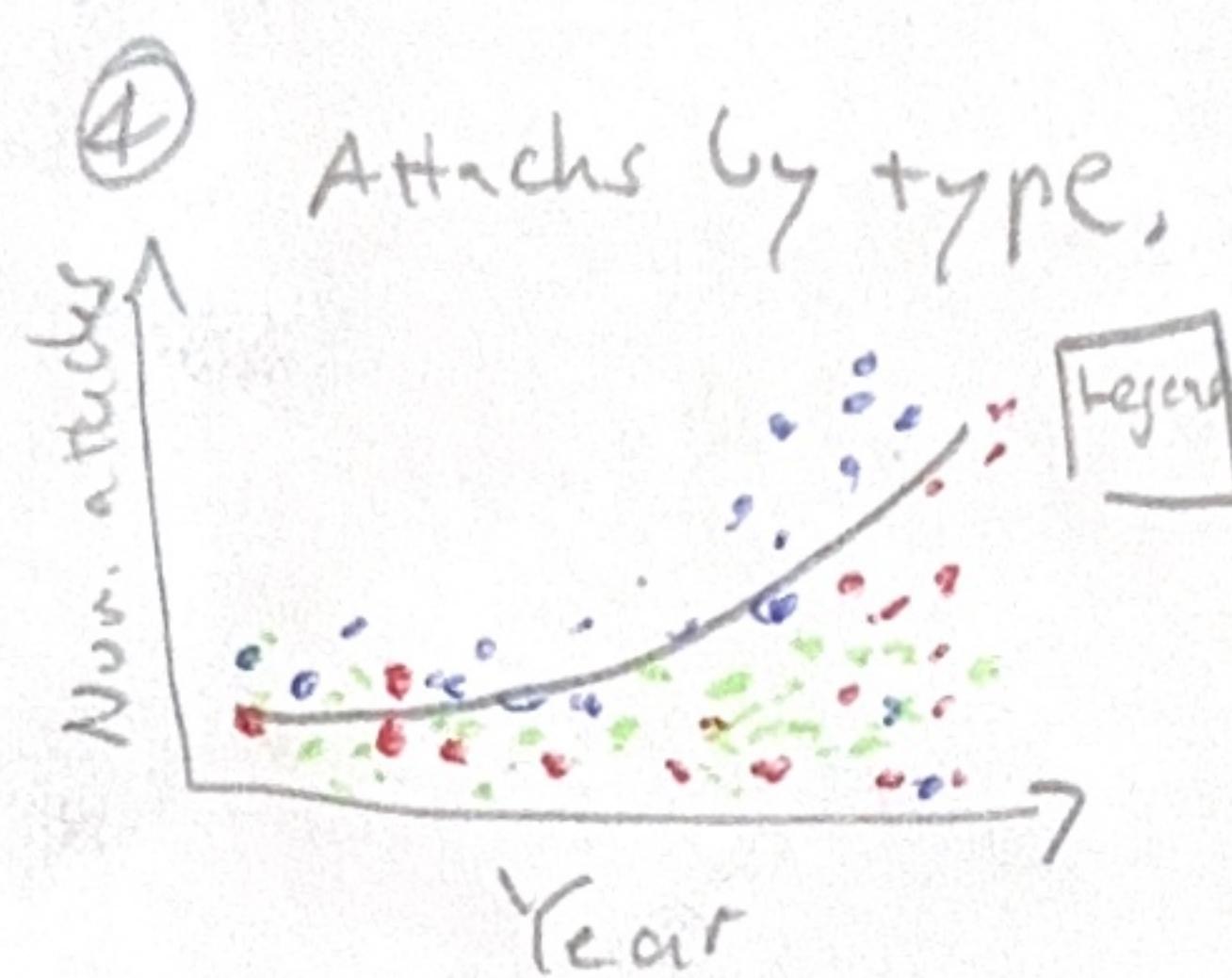
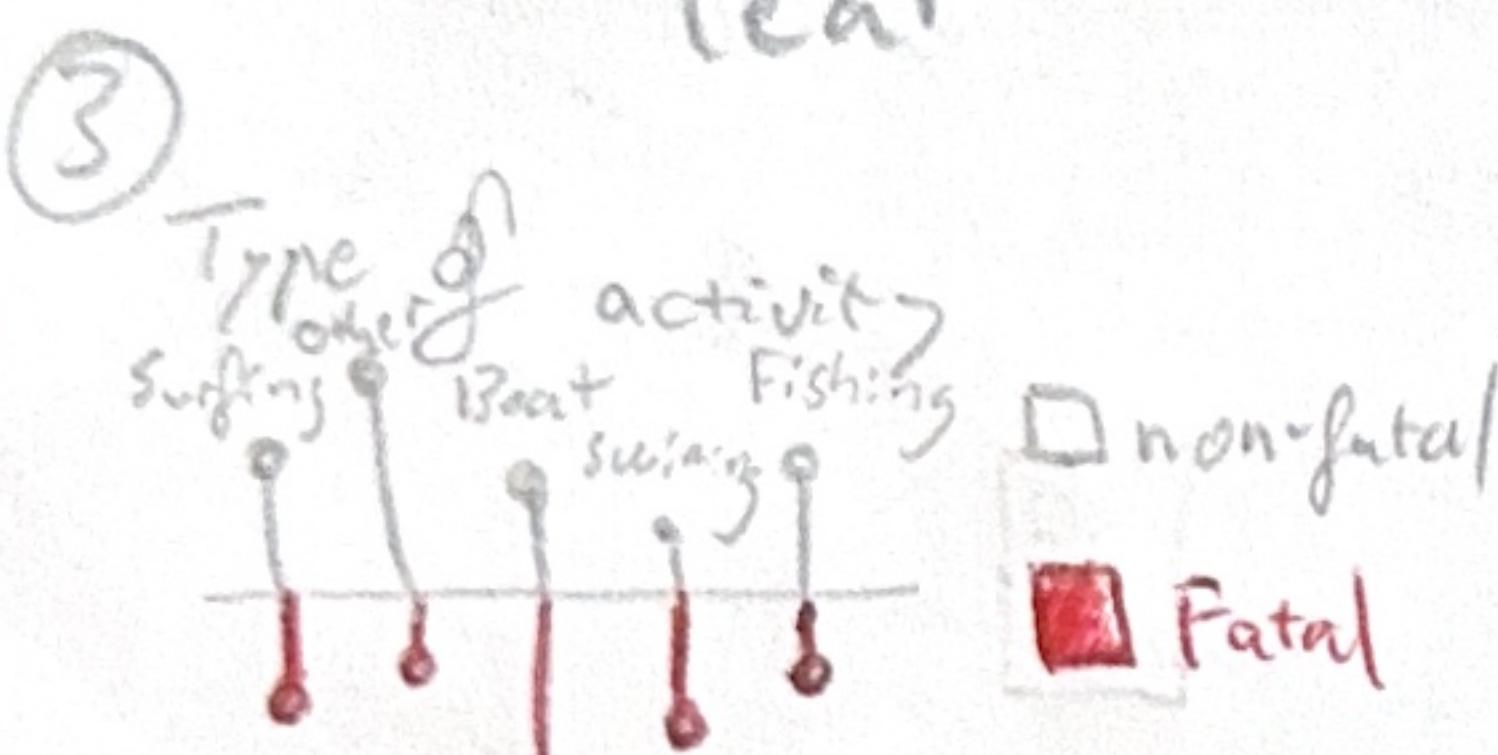
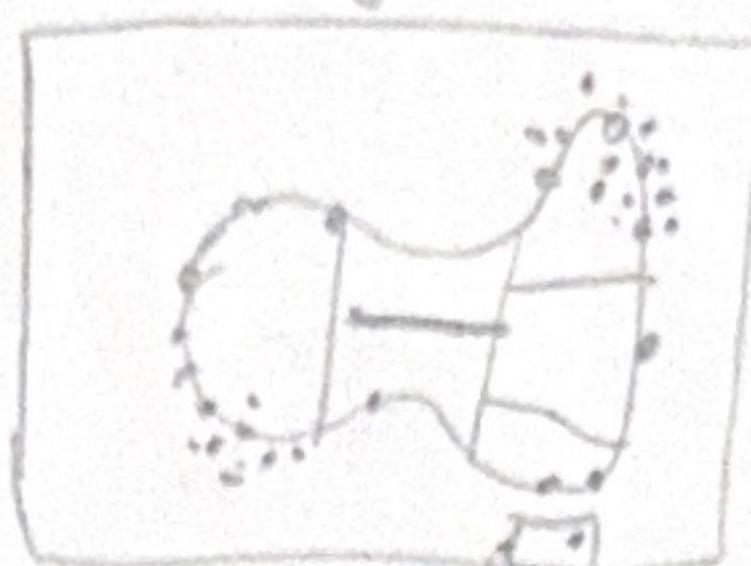
→ Hard to focus on a specific idiom as the size is similar with all idioms.

## Format

### Australian shark attacks.



### ② Map of attacks



## Focus



- The graph is positioned on the top to be the first graph viewed.
- It is large in size.
- Indicates clearly what the most dangerous shark species is, without having to know the exact values

⑤ T: Australian shark attacks

A: Jiseok Shin

D: 22/09/29

S: 5

T: Overview of shark attacks.

## Precautions

In idiom 1 you can hover over the areas to find exact values. Also, by clicking on an area/species it will blur the other areas.

## Pros

- Layout is good as it puts focus on area graph.

## Cons

- Lots of white space.
- Lacks detail which does not provide in-depth analysis